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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/588,328	08/15/2007	L. Kent Byrd Jr.	990029.00004	7223	
26710 QUARLES & I	7590 02/18/201 BRADY LLP	EXAMINER			
-	NSIN AVENUE	ZHU, WEIPING			
	, WI 53202-4497	ART UNIT	PAPER NUMBER		
			1793		
			NOTIFICATION DATE	DELIVERY MODE	
			02/18/2010	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

pat-dept@quarles.com

Office Action Summary		Арр	lication No.	Applicant(s)		
		10/5	588,328	BYRD JR. ET AL.		
		Exa	miner	Art Unit		
		WEI	PING ZHU	1793		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORT WHICHE* - Extensions after SIX (if - If NO period - Failure to r Any reply if	TENED STATUTORY PERIOD FOR IS LONGER, FROM THE ME SOFT THE ME AND THE ME SOFT THE ME AND	AILING DATE C of 37 CFR 1.136(a). In nunication. atutory period will apply will, by statute, cause t	OF THIS COMMUNICATION In no event, however, may a reply be time and will expire SIX (6) MONTHS from the application to become ABANDONEI	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status						
 Responsive to communication(s) filed on <u>03 August 2006</u>. This action is FINAL. 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213. 						
Disposition (of Claims					
4a) 5)□ Cla 6)⊠ Cla 7)□ Cla	im(s) <u>1-22</u> is/are pending in the a Of the above claim(s) is/a im(s) is/are allowed. im(s) <u>1-22</u> is/are rejected. im(s) is/are objected to. im(s) are subject to restrict	re withdrawn fro				
Application	Papers					
10)□ The App Rep	specification is objected to by the drawing(s) filed on is/are: dicant may not request that any objection of the declaration is objected to	a) accepted ction to the drawin the correction is i	g(s) be held in abeyance. See required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority unde	er 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notice of I 3) Informatio	References Cited (PTO-892) Draftsperson's Patent Drawing Review (P n Disclosure Statement(s) (PTO/SB/08) s)/Mail Date <u>8/3/2006</u> .	TO-948)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte		

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1-4 and 7-10 are rejected under 35 U.S.C. 102(a) as being anticipated by Purnell et al. (US 5,062,908).

With respect to claim 1, Purnell et al. ('908) discloses a process for manufacturing a metal-infiltrated powder metal part comprising compacting a metal powder to form a compact; forming an infiltrant blank from a wrought metal sheet, placing the infiltrant blank on top of the compact; and heat-treating (i.e. simultaneously sintering and infiltrating) the compact at a temperature sufficient to form a sintered compact with a matrix having pores and to melt the wrought metal such that the melted wrought metal infiltrate the pores of the matrix (col. 4, lines 35-52).

With respect to claim 7, Purnell et al. ('908) further discloses sintering the compact at a temperature sufficient to form a sintered compact with a matrix having pores before the heat treatment (col. 2, line 67 to col. 3, line 2).

With respect to claims 2 and 8, Purnell et al. ('908) discloses that the powder metal comprises iron and the wrought metal comprises copper (col. 4, lines 35-52).

With respect to claims 3 and 9, Purnell et al. ('908) discloses that the wrought metal sheet has a thickness of 0.55 mm (col. 4, lines 35-52).

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With respect to claims 4 and 10, Purnell et al. ('908) further discloses the copper sheet, slit to a predetermined width was rolled to a desired shape and cut off to a predetermined length (col. 4, lines 41-45), which would read on the claimed feature.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

2. Claims 5, 6 and 11-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Purnell et al. ('908).

The teaching of Purnell et al. ('908) regarding claims 1-4 and 7-10 has been discussed above.

With respect to claims 5, 6, 11-13, 17, 18 and 22, Purnell et al. ('908) does not disclose the claimed feature of a locating element on the infiltrant blank that is suitable for engaging a corresponding locating element on the compact. However, Purnell et al. ('908) discloses converting a sheet of a desired weight of copper or copper alloy into a desired shape and dimensions to fit onto the surface of the compact to be infiltrated (col. 2, lines 49-63). It would have been obvious to one of ordinary skill in the art that the end edges of the compact of Purnell et al. ('908) meet the limitation of the claimed locating element to locate the infiltrant blank onto the surface of the compact to be infiltrated accurately.

With respect to claims 14-16 and 19-21, the reasons for the rejections of claims

2-4 and 8-10 as stated above are further applied respectively herein.

Conclusions

3. This Office action is made non-final. Any inquiry concerning this communication

or earlier communications from the examiner should be directed to Weiping Zhu whose

telephone number is 571-272-6725. The examiner can normally be reached on 8:30-

16:30 Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Roy King can be reached on 571-272-1244. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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/Roy King/

Supervisory Patent Examiner, Art

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